

5/10

**A.**

```

SSL7_GL10      KEKQERVQHLYDIKDLHRYYSSESDFSNISGKVENYNGSNVVRFNQDQGQNHQLFLIGED
SSL7_GL1      KEKQERVQHLYDIKDLHRYYSSESDFSNISGKVENYNGSNVVRFNQDQGQNHQLFLIGED
SSL7_MW2      KEKQERVQHLYDIKDLHRYYSSESDFSNISGKVENYNGSNVVRFNQDQGQNHQLFLIGED
SSL7_NCTC8325 KEKQERVQHLYDIKDLHRYYSSESDFSNISGKVENYNGSNVVRFNQDQGQNHQLFLIGED
SSL7_Mu50     KEKQERVQHLYDIKDLHRYYSSESDFSNISGKVENYNGSNVVRFNQDQGQNHQLFLIGED
SSL7_N315     KEKQERVQHLYDIKDLHRYYSSESDFSNISGKVENYNGSNVVRFNQDQGQNHQLFLIGED
SSL7_NCTC6571 KEKQERVQHLYDIKDLHRYYSSESDFSNISGKVENYNGSNVVRFNQDQGQNHQLFLIGED
*****;*:;*:;*****;*:;*****;*****  ***** *:;

SSL7_GL10      KAKYKQGLEGGQNVFVVKELIDPNGRLSTVGGVTKKNNQSSETNTPLFVKKVYGGNLDASI
SSL7_GL1      KAKYKQGLEGGQNVFVVKELIDPNGRLSTVGGVTKKNNQSSETNTPLFVKKVYGGNLDASI
SSL7_MW2      KDKYKEGLEGGQNVFVVKELIDPNGRLSTVGGVTKKNNQSSETNTPLFVKKVYGGNLDASI
SSL7_NCTC8325 KDKYKEGLEGGQNVFVVKELIDPNGRLSTVGGVTKKNNQSSETNTPLFVKKVYGGNLDASI
SSL7_Mu50     KDKYKQGLEGGQNVFVVKELIDPNGRLSTVGGVTKKNNQSSETNTPLFVKKVYGGNLDASI
SSL7_N315     KDKYKQGLEGGQNVFVVKELIDPNGRLSTVGGVTKKNNQSSETNTPLFVKKVYGGNLDASI
SSL7_NCTC6571 KBQYKEGLEGGQNVFVVKELIDPNGRLSTVGGVTKKNNQSSETNTPLFVKKVYGGNLDASI
*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;

SSL7_GL10      ESFSINKEEVSLKELDFKIRQHLVKNYGLYKGTTKYGKITFNLKDGKKQIDLGDKLQFE
SSL7_GL1      DSFLINKEEVSLKELDFKIRQHLVKNYGLYKGTTKYGKITFNLKDGKKQIDLGDKLQFE
SSL7_MW2      ESFLINKEEVSLKELDFKIRQHLVKNYGLYKGTTKYGKITFNLKDGKKQIDLGDKLQFE
SSL7_NCTC8325 DSFSINKEEVSLKELDFKIRQHLVKNYGLYKGTTKYGKITFNLKDGKKQIDLGDKLQFE
SSL7_Mu50     DSFLINKEEVSLKELDFKIRQHLVKNYGLYKGTTKYGKITFNLKDGKKQIDLGDKLQFE
SSL7_N315     DSFLINKEEVSLKELDFKIRQHLVKNYGLYKGTTKYGKITFNLKDGKKQIDLGDKLQFE
SSL7_NCTC6571 DSFLINKEEVSLKELDFKIRQHLVKNYGLYKGTTKYGKITFNLKDGKKQIDLGDKLQFE
*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;

SSL7_GL10      HMGDVLNSKDIQNIATVTLKQI
SSL7_GL1      RMGDVLNSKDINKIEVTLKQI
SSL7_MW2      HMGDVLNSKDIQNIATVTLKQI
SSL7_NCTC8325 RMGDVLNSKDINKIEVTLKQI
SSL7_Mu50     RMGDVLNSKDIQNIATVTLKQI
SSL7_N315     RMGDVLNSKDIQNIATVTLKQI
SSL7_NCTC6571 RMGDVLNSKDIRGISVTINQI
*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;*:;

```

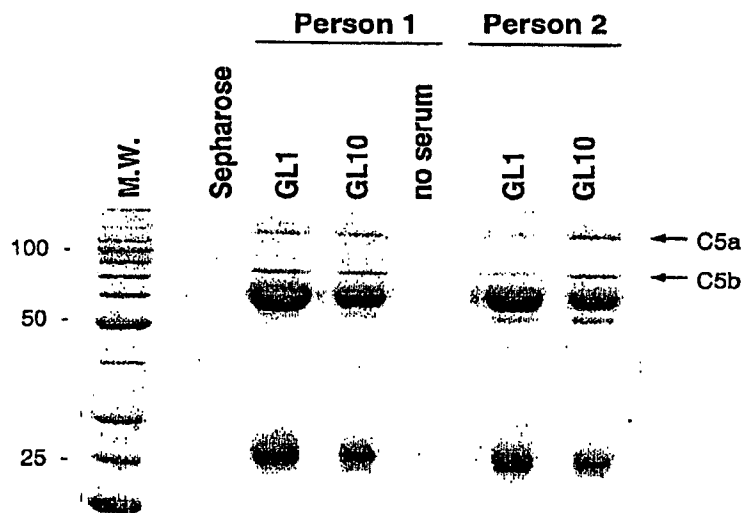
**B.**

Figure 5

9/10

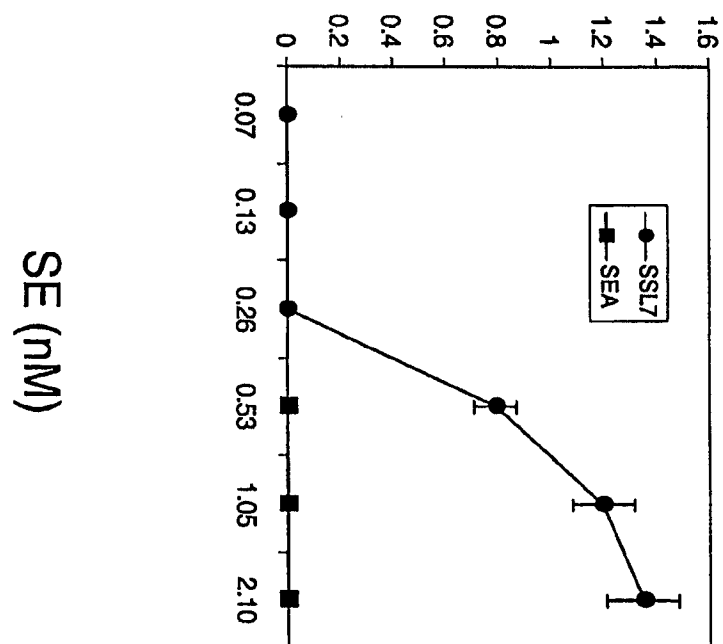
Bacterial Survival (cfu x 10<sup>-6</sup>)

Figure 9